

WHAT IS CLAIMED IS:

1. A modular intrusion detection system, said modular system comprising:  
a base unit including a primary device disposed within a primary housing wherein said primary device is an intrusion detection device, said primary housing defining a first mounting interface; and  
a plurality of secondary housing sections, each of said secondary housing sections having a second mounting interface, each of said second mounting interfaces being engageably securable to said first mounting interface to thereby securely attach a selected one of said secondary housing sections to said primary housing, at least one of said secondary housing sections having a secondary device associated therewith.
2. The modular system of claim 1 wherein said primary housing includes a base housing section and a removable cover, said base housing section defining said first mounting interface, said removable cover comprising a first attachment feature; each of said secondary housing sections including a second attachment feature engageable with said first attachment feature wherein attachment of said cover to said base housing section engages said first attachment feature with said second attachment feature of the selected one of said secondary housing sections securely attached to said primary housing section.
3. The modular system of claim 1 wherein one of said first and second mounting interfaces include at least one threaded opening for receiving a threaded fastener, said threaded fastener securing said secondary housing section to said primary housing.
4. The modular system of claim 1 wherein said first and second mounting interfaces are securable together with a snap-fit engagement.
5. The modular system of claim 1 wherein said primary device generates an alarm signal and said at least one secondary device is couplable to said primary device wherein said secondary device is responsive to said alarm signal.
6. The modular system of claim 1 wherein said primary housing includes a primary terminal strip, said primary terminal strip being connectable to a security system and having a plurality of primary terminals, said primary device including a plurality of conductive elements, each of said primary conductive elements being operably couplable with one of said plurality of primary terminals and wherein said at least one secondary housing section having a

secondary device associated therewith includes a secondary terminal strip, said secondary terminal strip being connectable to said primary terminal strip and having a plurality of secondary terminals, said secondary device including a plurality of secondary conductive elements, each of said secondary conductive elements being operably couplable with one of said plurality of secondary terminals.

7. The modular system of claim 6 wherein said at least one secondary housing section having a secondary device associated therewith defines an opening for passing wires from said primary terminal strip to said secondary terminal strip.

8. The modular system of claim 1 wherein said secondary housing sections include a plurality of secondary housing sections each having one of a plurality of different secondary devices associated therewith.

9. The modular system of claim 8 wherein one of said secondary devices comprises an image capturing device.

10. The modular system of claim 8 wherein one of said secondary devices comprises a microphone.

11. The modular system of claim 8 wherein one of said secondary devices comprises a light source.

12. The modular system of claim 8 wherein one of said secondary devices comprises a speaker.

13. A modular intrusion detection system, said modular system comprising: a base unit including a primary device disposed within a primary housing wherein said primary device is an intrusion detection device, said primary device generating an alarm signal upon detection of an intruder; and

a plurality of secondary devices, each of said secondary devices being selectively couplable to said primary device wherein at least one of said secondary devices is responsive to said alarm signal generated by said primary device when coupled to said primary device and wherein each of said secondary devices is associated with a respective secondary housing section, each of said secondary housing sections being directly attachable to said primary housing; and

wherein a modular device is assembled by selecting one of said plurality of secondary devices, attaching said associated secondary housing section of said selected one of said secondary devices to said primary housing and coupling said selected one of said secondary devices to said primary device.

14. The modular system of claim 13 wherein at least one of said secondary devices comprises an image capturing device.

15. The modular system of claim 13 wherein said secondary devices have a plurality of different functions and at least one of said secondary devices comprises a microphone.

16. The modular system of claim 13 wherein said primary housing defines a first mounting interface and each of said secondary housing sections defines a second mounting interface, each of said second mounting interfaces being engageably securable to said first mounting interface to thereby securely attach a selected one of said secondary housing sections to said primary housing section.

17. The modular system of claim 16 wherein said primary housing includes a base housing section and a removable cover, said base housing section defining said first mounting interface, said removable cover comprising a first attachment feature; each of said secondary housing sections including a second attachment feature engageable with said first attachment feature wherein attachment of said cover to said base housing section engages said first attachment feature with said second attachment feature of the selected one of said secondary housing sections securely attached to said primary housing section.

18. The modular system of claim 13 wherein said primary housing includes a primary terminal strip, said primary terminal strip being connectable to a security system and having a plurality of primary terminals, said primary device including a plurality of conductive elements, each of said primary conductive elements being operably couplable with one of said plurality of primary terminals and wherein each of said secondary housing sections includes a secondary terminal strip, said secondary terminal strips being connectable to said primary terminal strip and having a plurality of secondary terminals, said secondary devices each including a plurality of secondary conductive elements, each of said secondary conductive elements being operably couplable with one of said plurality of secondary terminals.

19. A modular intrusion detection system connectable to a security system, said modular system comprising:

a base unit including a primary device disposed within a primary housing wherein said primary device is an intrusion detection device, said primary housing including a primary terminal strip, said primary terminal strip being connectable to the security system and having a plurality of primary terminals, said primary device including a plurality of primary conductive elements, each of said primary conductive elements being operably couplable with one of said plurality of primary terminals;

a plurality of secondary devices, each of said secondary devices being operably couplable to said primary device, each of said secondary devices having a secondary housing section associated therewith, each of said secondary housing sections being directly attachable to said primary housing section and having a secondary terminal strip, each of said secondary terminal strips being connectable to said primary terminal strip and having a plurality of secondary terminals, each of said secondary devices including a plurality of secondary conductive elements, each of said secondary conductive elements being operably couplable with one of said plurality of secondary terminals; and

wherein a modular device is assembled by selecting one of said plurality of secondary devices, attaching said associated secondary housing section of said selected one of said secondary devices to said primary housing and coupling said selected one of said secondary devices to said primary device.

20. The modular system of claim 19 wherein at least one of said secondary devices comprises an image capturing device.

21. The modular system of claim 19 wherein at least one of said secondary devices comprises a microphone.

22. The modular system of claim 19 wherein one of said secondary devices comprises a light source.

23. The modular system of claim 19 wherein one of said secondary devices comprises a speaker.

24. The modular system of claim 19 wherein said primary device generates an alarm signal, said alarm signal being communicated to the security system and said secondary device, said secondary device being responsive to said alarm signal.

25. The modular system of claim 19 wherein said primary housing defines a first mounting interface and each of said secondary housing sections defines a second mounting interface, each of said second mounting interfaces being engageably securable to said first mounting interface to thereby securely attach a selected one of said secondary housing sections to said primary housing section.

26. The modular system of claim 25 wherein said primary housing includes a base housing section and a removable cover, said base housing section defining said first mounting interface, said removable cover comprising a first attachment feature; each of said secondary housing sections including a second attachment feature engageable with said first attachment feature wherein attachment of said cover to said base housing section engages said first attachment feature with said second attachment feature of the selected one of said secondary housing sections securely attached to said primary housing section.

27. A modular intrusion detection system, said modular system comprising:  
a plurality of base units, each of said base units including a primary device disposed within a primary housing, said primary devices each being one of a plurality of different intrusion detection devices, each of said primary housings defining a first mounting interface; and

a plurality of secondary housing sections, each of said secondary housing sections having a second mounting interface, said second mounting interfaces each being engageable with each of said first mounting interfaces whereby each of said secondary housing sections are selectively attachable to each of said primary housings, at least one of said secondary housing sections having a secondary device associated therewith.

28. The modular system of claim 27 wherein each of said primary housings includes a base housing section and a removable cover, said base housing sections defining said first mounting interface, said removable covers each comprising a first attachment feature; each of said secondary housing sections including a second attachment feature engageable with each of said first attachment features wherein attachment of one of said covers to a respective one of

said base housing sections engages said first attachment feature of said one cover with said second attachment feature of the selected one of said secondary housing sections securely attached to said respective base housing section.

29. The modular system of claim 27 wherein said primary device generates an alarm signal and said secondary device associated with said at least one secondary housing is couplable to said primary device wherein said secondary device is responsive to said alarm signal.

30. The modular system of claim 27 wherein each said primary housing includes a primary terminal strip, said primary terminal strips being connectable to a security system and having a plurality of primary terminals, each of said primary devices including a plurality of conductive elements, each of said primary conductive elements being operably couplable with one of said plurality of primary terminals and wherein said at least one secondary housing section having a secondary device associated therewith includes a secondary terminal strip, said secondary terminal strip being connectable to said primary terminal strip and having a plurality of secondary terminals, said secondary device including a plurality of secondary conductive elements, each of said secondary conductive elements being operably couplable with one of said plurality of secondary terminals.

31. The modular system of claim 27 wherein said secondary housing sections include a plurality of secondary housing sections each having one of a plurality of different secondary devices associated therewith.

32. The modular system of claim 31 wherein at least one of said secondary devices comprises an image capturing device.

33. The modular system of claim 31 wherein at least one of said secondary devices comprises a microphone.

34. The modular system of claim 31 wherein one of said secondary devices comprises a light source.

35. The modular system of claim 31 wherein one of said secondary devices comprises a speaker.